

PATENT

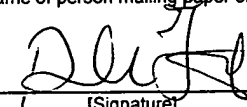
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: ICKINGER

In re Application of:)
GEORG MICHAEL ICKINGER et al.)
Cont. of Int. Appl. No.: PCT/EP02/04230)
Int. Filing Date: April 17, 2002)
For: INJECTION MOLDING MACHINE WITH AN)
ELECTROMOTIVE SPINDLE DRIVE AND)
A SPRING-BASED ENERGY STORAGE)
DEVICE FOR SUPPORTING THE)
ELECTRIC MOTOR)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Express Mail mailing label number: EV 316665514 US
Date of Deposit: October 20, 2003
I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".
ANTONELLA FUSILLO
[Name of person mailing paper or fee]

[Signature]

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the following references A) to C) which were cited in the International Search Report issued by the European Patent Office with regard to the corresponding international patent application No. PCT/EP02/04230, references D) to G) which were cited in a Austrian Office Action issued by the Austrian Patent Office with regard to the corresponding Austrian patent application

No. A 632/01 and reference H) which is cited in the instant specification. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

	Country:	Patent or Appl. No:	Patentee or Applicant:	Issue or Filing Date:
A)	Japan	JP 03 231823 A	Sankyo S.	10-15-1991
B)	Japan	JP 61 068219 A	Fanuc Ltd.	04-08-1986
C)	Japan	JP 09 220739 A	Toshiba	08-26-1997
D)	Japan	JP 2000213616 A	NSK Ltd.	08-02-2000
E)	Japan	JP 07077210 A	Uchida Yuatsu	03-20-1995
F)	Europe	EP 0 512 139 A1	Siemens	11-11-1992
G)	France	FR 2 739 428	Thomson	04-04-1997
H)	PCT	WO 97/34757	Engel	09-25-1997

Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

☒ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.

☐ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.

☐ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.

- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.
- ☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.
- ☐ The undersigned submits the following statement requesting consideration of this statement:

The undersigned hereby states:

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;
- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.
- ☐ The fee of \$180.00 set forth in 1.17(p).

☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report together with a translation of the relevant pages thereof. In addition, applicant notes with respect to any information that is not in English language as follows:

Reference F) describes an electric motor actuator, in the housing (1,2) of which an actuating spindle (7) couplable to an actuating member (14) and provided with an external thread is arranged in a manner secured against rotation but allowing axial movement, on the external thread of which spindle a spindle nut (6) provided with a corresponding internal thread is screwed, the spindle nut being rotatably mounted and drivable in both directions of rotation by a driving element (5) coupled to an electric motor. If the electric power fails with such an actuator, the attainment of a safety position is made possible by the fact that the spindle nut (6) is coupled in axially movable fashion to its driving element (5) and is supported in an axially fixed but rotatable fashion in a receiving part (15) which, for its part, is arranged in axially displaceable fashion but secured against rotation in the housing (1), that, furthermore, the spindle nut (6) and the receiving part (15) can

be displaced axially together by an energy accumulator (21 or 24) acting continuously on them and are held in their starting position, counter to the actuating effect of the energy accumulator (21 or 24) by an electromagnetically acting holding device (18).

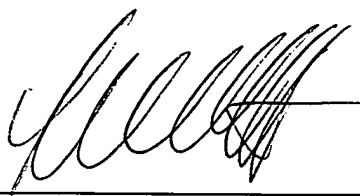
Reference G) describes a power jack which has a brushless electric motor (2) which directly rotatably drives a threaded shaft (3) which cooperates with and in turn drives the nut (5). The nut has a shaft extension (6) with a hollow inner (30). A guiding stage (18) of the jack shaft (6) is of hydrostatic type. The nut and drive shaft move up and down in a sealed outer cylinder (10). The cylinder (10) receives an equalizing pressure (16) of the charge of the jack.

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted

By:



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Form PTO-1449U.S. Department of Commerce
Patent and Trademark Office**INFORMATION DISCLOSURE CITATION**

Attorney's Docket No. ICKINGER	Applicant G. M. ICKINGER et al.	Cont. of Int. Appl. No. PCT/EP02/04230
Int. Filing Date April 17, 2002	Group	Examiner

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if appropriate

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation
	JP 03 231823 A	10-15-1991	Japan			yes
	JP 61 068219 A	04-08-1986	Japan			yes
	JP 09 220739 A	08-26-1997	Japan			yes
	JP 2000213616 A	08-02-2000	Japan			yes
	JP 07077210 A	03-20-1995	Japan			yes
	EP 0 512 139 A1	11-11-1992	Europe			no
	FR 2 739 428	04-04-1997	France			no
	WO 97/34757	09-25-1997	PCT			no

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:	Date considered:	

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.